

Blast

Introduction

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Blast

Blast is a way to find sequence similarity in IMG.

Blast can be selected and viewed alphabetically via the second-level menu under **Find Genes**, as shown in Figure 1.



Figure 1: Access Blast.

In IMG 3.3, the **Genome filter** is applied to **Blast**, and contributes to its new look-and-feel, as shown in Figure 2.

The behavior of **Genome Filter** in **Blast** is slightly different from that in **Find Genes**, **Find Functions**, etc.. Even if there's genome selection, the **Genome Filter** in **Blast** is still defaulted to "All IMG Genomes", and the search is conducted on "All IMG Genomes". However, user can override the selection via the **Genome Filter** provided in the page, if user has selected and saved genomes.

BLAST

Find matches in selected genomes ("All IMG genomes" if none are selected).

If there are selections in Genome Browser, please use "Show All/Selected Genomes" buttons to access "All IMG genomes" or "Currently selected genomes from Genome Browser".

Sequence	
Program	blastp (Protein vs. Protein) ▼
E-value:	1e-5 ▼

Genome Filter

Domains: (B)acteria, (A)rchaea, (E)ukarya, (P)lasids, (V)iruses.

Genome Completion: [F]inished, [P]ermanent Draft, [D]raft.

Seq. Status	Domain
All Finished, Permanent Draft and Draft ▼	All ▼
<input checked="" type="radio"/> List <input type="radio"/> Tree	
<div>Acidilobus saccharovorans 345-15 (A)[F] Aciduliprofundum boonei T469 (A)[D] Aciduliprofundum boonei T469 (A)[F] Aeropyrum pernix K1 (A)[F] Archaeoglobus fulgidus DSM 4304 (A)[F] Archaeoglobus profundus DSM 5631 (A)[F] Caldivirga maquilingensis IC-167 (A)[F] Candidatus Korarchaeum cryptofilum OPF8 (A)[F] Candidatus Methanoregula boonei 6A8 (A)[F] Cenarchaeum symbiosum A (A)[F]</div>	

Run BLAST

Reset

Figure 2: Blast.